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ADDITIONAL    SECTION A - Permit Summary	2	<u> </u>		<del>'</del>	RÉMA	RKS			19		<u> 18.m.</u>		10.0	1	
ADDITIONAL    SECTION A - Permit Summary	:  W - 6 9 -	-1012101 11	D # 5 1 0 C	010101410	1 10	111	1 1	111	1 1	1 1 1	1 1	1 1	1 1	١	1
SECTION A - Permit Summary  NAME AND ADDRESS OF FACILITY (Include County, State and ZIP code)  Fansteel, Inc. (metals division) Number 10 Tantalum Place Muskogee, Muskogee County, Okla. 74401  RESPONSIBLE OFFICIAL James A. Pierret Plant Manager FACILITY REPRESENTATIVE C. Brown  SECTION B - Effluent Characteristics (Additional sheets attached  PARAMETER/ OUTFALL  BOD/ 001  PERMIT REQUIREMENT REQUIREM				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \											64
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Number 10 Tantalum Place Nuskogee, Muskogee County, Okla. 74401  James A. Pierret  Facility representative C. Grown  SECTION B. Effluent Characteristics (Additional sheets attached OUTFALL)  MINIMUM  AVERAGE  MAXIMUM  AVERAGE  MAXIMUM  ADDITIONAL  Flow/ OUT PERMIT REQUIREMENT  REQUIREMENT  BOD/ OUT  PERMIT REQUIREMENT  ASAMPLE MEASUREMENT  BOD/ OUT  PERMIT REQUIREMENT  BOD/ OUT  BOD/	IAME AND ADDI	RESS OF FACILI	TY (Include County	y, State and Z	IP cod	'e)					EXPIR	ATIO	N DAT	TE.	
Number 10 Tantalum Place  Muskogee, Muskogee County, Okla. 74401  Responsible Official  James A. Pierret  Facility representative  C. Brown  SECTION B. Effluent Characteristics (Additional sheets attached OUTFALL  Flow/ OUT PERMIT REQUIREMENT  SAMPLE MEASUREMENT  OUT PERMIT REQUIREMENT  OUT PERMIT  OUT PE	Fansteel,	Inc. (metal	ls division)	· )		•	1				12-	31-8	80		
RESPONSIBLE OFFICIAL  James A. Pierret  FACILITY REPRESENTATIVE  C. Grown  SECTION B - Effluent Characteristics (Additional sheets attached  PARAMETER/ OUTFALL  MINIMUM  AVERAGE  MAXIMUM  ADDITIONAL  Flow/ 001  PERMIT REQUIREMENT  35 1b/day  PERMIT REQUIREMENT  92 1bs/day  PERMIT REQUIREMENT  156 1bs/day  PERMIT REQUIREMENT  PERMIT REQUIREMENT  156 1bs/day  PERMIT REQUIREMENT  25 1bs/day  PERMIT REQUIREMENT  156 1bs/day  PERMIT REQUIREMENT  25 1bs/day  PERMIT REQUIREMENT  156 1bs/day  PERMIT REQUIREMENT  156 1bs/day  PERMIT REQUIREMENT  156 1bs/day  PERMIT REQUIREMENT  PERMIT REQ											ISSUAI	VCE D	ATE		
James A. Pierret  FACILITY REPRESENTATIVE C. Grown  SECTION B - Effluent Characteristics (Additional sheets attached  PARAMETER/ OUTFALL  MINIMUM AVERAGE  MAXIMUM ADDITIONAL  Flow/ 001  PERMIT REQUIREMENT BOD/ 001  SAMPLE MEASUREMENT BOD/ 001  PERMIT REQUIREMENT  TSS/ 001  PERMIT TSS/ 001			ounty, Okla.			<u> </u>							79		
FACILITY REPRESENTATIVE C. 8 rown  SECTION B - Effluent Cherecteristics (Additional sheets attached  PARAMETER/OUTFALL  Flow/ D01  FRAMPLE MEASUREMENT  B0D/ D01  PERMIT REQUIREMENT  TSS/ D01  PERMIT REQUIREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT  B01  WH3-N/  WH3-N/  SAMPLE MEASUREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  TSS/ D01  PERMIT REQUIREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  D01  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  D01  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  D01  PERMIT SIMPLE MEASUREMENT  D03  PERMIT SIMPLE MEASUREMENT  D03  PERMIT SIMPLE MEASUREMENT  D04  PERMIT SIMPLE MEASUREMENT  D05  PERMIT SIMPLE MEASUREMENT  D05  PERMIT SIMPLE MEASUREMENT  D06  PERMIT SIMPLE MEASUREMENT  D07  PERMIT SIMPLE MEASUREMENT  D07  PERMIT SIMPLE MEASUREMENT  D08  PERMIT SIMPLE MEASUREMENT  D08  PERMIT SIMPLE MEASUREMENT  D09  PERM						•	<b>1</b>						667	620	12
C. Srown  SECTION B - Effluent Characteristics (Additional sheets attached  PARAMETER/ OUTFALL  Flow/ O01  Flow/ O01  BOD/ PERMIT REQUIREMENT  TSS/ O01  FERMIT REQUIREMENT  TSS/ O01  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  TOTAL  SAMPLE MEASUREMENT  TOTAL  SAMPLE MEASUREMENT  TOTAL  SAMPLE MEASUREMENT  TOTAL  TOTAL  SAMPLE MEASUREMENT  TOTAL  TOTAL  SAMPLE MEASUREMENT  TOTAL  TOTAL  TOTAL  SAMPLE MEASUREMENT  TOTAL  TOTAL  TOTAL  SAMPLE MEASUREMENT  TOTAL  TOT							anag	er ———			<del> </del>		20/-	030	
SECTION B - Effluent Characteristics (Additional sheets attached		ESENTATIVE		Ì			torv	Manago	er				s ab	ove	<u> </u>
PARAMETER/OUTFALL  Flow/ 001  Flow/ 001  PERMIT REQUIREMENT  BOD/ 001  PERMIT REQUIREMENT  8.3 lbs/day  80 lbs/day 240 lbs/day  TSS/ 001  PERMIT REQUIREMENT  7.64 lbs/day  195738  MH3-N/  MH3-N/  PERMIT REQUIREMENT  92 lbs/day  468 lbs/day  APR 3 1981  Fluoride MEASUREMENT  21.26 lbs/day  50 lbs/day  APR 3 1981  Fluoride MEASUREMENT  21.26 lbs/day  50 lbs/day			. / 4 ddising labors								L				
SAMPLE MEASUREMENT .03981 MGD  PERMIT REQUIREMENT 80 1bs/day 240 1bs/day  TSS/ SAMPLE MEASUREMENT 7.64 1bs/day 195738  NH3-N/ PERMIT REQUIREMENT 35 1b/day 70 1bs/day  MINIMUM AVERAGE MAXIMUM ADDITIONAL  ADDITIO	888	uent Characteristic	s (Additional sneets	s attached		_/		Τ					<u>-</u>		
Flow			MINIMUM	AVERAG	iE	MAXIM	им			ADDIT	IONAL				
BOD/ SAMPLE MEASUREMENT 8.3 lbs/day  TSS/ SAMPLE MEASUREMENT 7.64 lbs/day 195738  O01  PERMIT REQUIREMENT 35 lb/day 70 lbs/day  WH3-N/ SAMPLE MEASUREMENT 92 lbs/day 468 lbs/day  FIND TO THE COLUMN T	Flow/ IN			.03981	MGD							;			
BOU/ 001  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  PERMIT REQUIREMENT  O01  PERMIT REQUIREMENT  O01  SAMPLE MEASUREMENT  O01  PERMIT REQUIREMENT  O01  PERMIT	( )														
TSS/ O01  PERMIT REQUIREMENT  7.64 lbs/day  7.64 lbs/day  195738	ROD/ V			8.3 1	os/d	ay									
MEASUREMENT  7.64 IDS/day  7.6	(P			80 1b	s/da	y 240	lbs/	day							<b> </b>
PERMIT REQUIREMENT 35 1b/day 70 1bs/day  MH3-N/ MEASUREMENT 92 1bs/day 468 1bs/day  156 1bs/day  FINORIDE MEASUREMENT 21.26 1bs/day  PERMIT 21.26 1bs/day  PERMIT 25 1bs/day  150 1bs/day  150 1bs/day  150 1bs/day  150 1bs/day  150 1bs/day	122/ /			7.64	lbs/	day		ļ		111111111	19	5738	3		
##3-N/ MEASUREMENT 92 IDS/day 468 IDS/day  PERMIT REQUIREMENT 156 IDS/day  APR 3 1981  fluoride MEASUREMENT 21.26 IDS/day  OO1 PERMIT 25 IDS/day 50 IDS/day	P			35 1b/	'day	<b>7</b> 0	lbs/	day	,						
fluoride SAMPLE MEASUREMENT 21.26 lbs/day  Ool PERMIT 25 lbs/day 50 lbs/day	<b>₩</b> H3-N/ s	SAMPLE MEASUREMENT		92 <b>1</b> bs	/da	468	lbs/	day	· · · · · · · · · · · · · · · · · · ·	]; 	`;				
fluoride MEASUREMENT 21.26 lbs/day 50 lbs/day	001 P			156 lbs	/da	<b>/</b>		: 	· 	A	PR :	3 <b>19</b>	81_		
001 PERMIT REQUIREMENT 25 lbs/day 50 bs/day	fluoride M	MEASUREMENT				<u>-</u>									
		REQUIREMENT				}		<u> </u>	ay ———		· ·	"			
SECTION C · Facility Evaluation (S = Satisfactory, U = Unsatisfactory, N/A = Not applicable)  SEFFLUENT WITHIN PERMIT REQUIREMENTS 11 OPERATION AND MAINTENANCE 11 SAMPLING PROCEDURES								<del></del>	10000	1 1010 0	2005=	10		. <u> </u>	<u> </u>
	0500000						INCE								-
PERMIT VERIFICATION  B FLOW MEASUREMENTS  OTHER:	PERMIT VERI							-   3			,				
SECTION D - Comments		nments													_
SECTION E - Inspection/Review ENFORCEMEN	ECTION E - Inspe	ection/Review									8				
SIGNATURES AGENCY DATE DIVISION USE ONLY		SIGNATU	RES			AGENCY			DATE			USE	ONLY		
INSPECTED BY OWER 2-28-81	NSPECTED BY	. // r			Orn	a R		2-20-	-81		COMP	LIAN	CEST	ATU	5
INSPECTED BY	NSPECTED	My 7.	Weeks.				<del></del>	2-20-							`. 
REVIEWED BY OWRB 4/7/81	REVIEWED BY	resC. W	lans		Ou	JRB		4/7	1/8	/	֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֡֓֡֓֡֓֡֓	UNC	JIMP L	: MNC	,4

ر (Continued) SECTION B - Effluent Characteristics (Additional sheets attached \_ PARAMETER/ OUTFALL MINIMUM AVERAGE MAXIMUM ADDITIONAL POTASSIUM SAMPLE MEASUREMENT 239.2 1bs/day 001 PERMIT REQUIREMENT N/A N/A SAMPLE MEASUREMENT TOC/ 3.65 lbs/day 001 PERMIT N/A N/A REQUIREMENT SAMPLE MEASUREMENT 34.12 1bs/day COD/ PERMIT REQUIREMENT 001 N/A N/A SAMPLE MEASUREMENT 1291.98 lbs/day Sulfate PERMIT REQUIREMENT N/A N/A SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT N PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT U PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT

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Continue E them. It Commists and immediate as an appropriate. N	/A m Nige Applicable	PERM	IT NO.	
Sections F thru L: Complete on all inspections, as appropriate. N	/A = Not Applicable		001643	
SECTION F - Facility and Permit Background				
ADDRESS OF PERMITTEE IF DIFFERENT FROM FACILITY (Including City, County and ZIP code)	DATE OF LAST PREVIOUS IN 80-08-19 FINDINGS		N BY EPA/S	TATE
	Non Compliano	:e		
SECTION G - Records and Reports				
RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT.	₹DYES □NO □N/A/	Further explana	tion attached	<i>i</i>
DETAILS: (a) ADEQUATE RECORDS MAINTAINED OF:				
(i) SAMPLING DATE, TIME, EXACT LOCATION		YES	□ NO	□ N/A
(ii) ANALYSES DATES, TIMES		₹ YES	□ NO	□ N/A
(iii) INDIVIDUAL PERFORMING ANALYSIS		YES	□ NO	□ N/A
(iv) ANALYTICAL METHODS/TECHNIQUES USED		₩ YES	Ои	□ N/A
(v) ANALYTICAL RESULTS (e.g., consistent with self-monitoring		NES_	□ NO	□ N/A
(b) MONITORING RECORDS (e.g., flow, pH, D.O., etc.) MAINTAINED F INCLUDING ALL ORIGINAL STRIP CHART RECORDINGS (e.g. cor				
calibration and maintenance records).		🖾 YES	□ NO	□ N/A
(c) LAB EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS	KEPT.	YES	□ №	□ N/A
(d) FACILITY OPERATING RECORDS KEPT INCLUDING OPERATING	LOGS FOR EACH TREATMENT UN	IIT, 🖸 YES	□ NO	□ N/A
(e) QUALITY ASSURANCE RECORDS KEPT.		N YES	□ NO	□ N/A
(f) RECORDS MAINTAINED OF MAJOR CONTRIBUTING INDUSTRIE	S (and their compliance status) USIN	IG		
PUBLICLY OWNED TREATMENT WORKS.		☐ YES	□ NO	<b>⊠</b> N/A
SECTION H - Permit Verification	_			
INSPECTION OBSERVATIONS VERIFY THE PERMIT.   DETAILS:	NO □ N/A (Further explanation	ion attached	Yes	
(a) CORRECT NAME AND MAILING ADDRESS OF PERMITTEE.		<b></b> YES	□ NO	□'N/A
(b) FACILITY IS AS DESCRIBED IN PERMIT.		E YES	□ NO	□ N/A
(c) PRINCIPAL PRODUCT(S) AND PRODUCTION RATES CONFORM V	VITH THOSE SET FORTH IN PERM	IIT		
APPLICATION.	····	YES YES	□ NO	□ N/A
(d) TREATMENT PROCESSES ARE AS DESCRIBED IN PERMIT APPLI	CATION.	E YES	□ NO	□ N/A
(e) NOTIFICATION GIVEN TO EPA/STATE OF NEW, DIFFERENT OR	INCREASED DISCHARGES.	YES		<u>₽</u> N/A
(f) ACCURATE RECORDS OF RAW WATER VOLUME MAINTAINED.		K YES	<u></u>	□ N/A
(g) NUMBER AND LOCATION OF DISCHARGE POINTS ARE AS DESC	RIBED IN PERMIT.	☐ YES	<u></u> № NO	□ N/A
(h) CORRECT NAME AND LOCATION OF RECEIVING WATERS.		₹ YES	□ NO □ NO	
(i) ALL DISCHARGES ARE PERMITTED. SECTION I - Operation and Maintenance		LI TES	ED NO	LIN/A
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED.	☐ YES ☑ NO ☐ N/A (I	Further explana	tion attached	d Yes
DETAILS:				
(a) STANDBY POWER OR OTHER EQUIVALENT PROVISIONS PROVI		2 YES	<u> </u>	□ N/A
(b) ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILI		Ø YES	NO	□ N/A
(c) REPORTS ON ALTERNATE SOURCE OF POWER SENT TO EPA ST.	tached pages	Ø YES		□ N/A
(c) The section of th	tached pages	☐ YES	<mark>⊠_NO</mark>	□ N/A
(e) ALL TREATMENT UNITS IN SERVICE.  (f) CONSULTING ENGINEER RETAINED OR AVAILABLE FOR CONS	ULTATION ON OPERATION AND			□ N/A
MAINTENANCE PROBLEMS.		YES YES	□ NO	∵ □ N/A
(g) QUALIFIED OPERATING STAFF PROVIDED. (h) ESTABLISHED PROCEDURES AVAILABLE FOR TRAINING NEW (	DEBATORS OTT	YES YES	□ NO	□ N/A
(I) FILES MAINTAINED ON SPARE PARTS INVENTORY, MAJOR EQU		_	***	· · · · · · · · · · · · · · · · · · ·
PARTS AND EQUIPMENT SUPPLIERS.  (j) INSTRUCTIONS FILES KEPT FOR OPERATION AND MAINTENANG	CE OF EACH ITEM OF MAJOR	M YES	□ №	□ N/A
EQUIPMENT.		Ø YES	□ NO	□ N/A
(k) OPERATION AND MAINTENANCE MANUAL MAINTAINED.		₩ YES	No	□ N/A
(I) SPCC PLAN AVAILABLE. PCB transformer in stor	age. See SPCC Report	☐ YES	<u> </u>	□ N/A
(m) REGULATORY AGENCY NOTIFIED OF BY PASSING. (Dates		YES YES	KI NO	□ N/A
(n) ANY BY-PASSING SINCE LAST INSPECTION. (o) ANY HYDRAULIC AND/OR ORGANIC OVERLOADS EXPERIENCE	D.	☐ YES	<u> </u>	□ N/A
har and the substitution of the substitution o	_,			





	PERMIT	NO. 0KG001641	3
SECTION J - Compliance Schedules			
PERMITTEE IS MEETING COMPLIANCE SCHEDULE. DYES DNO DNA (Further ex.	planation at	tached	
CHECK APPROPRIATE PHASE(S):			
☐ (a) THE PERMITTEE HAS OBTAINED THE NECESSARY APPROVALS FROM THE APPROPRIATE AUTHORITIES TO BEGIN CONSTRUCTION.			ļ
(b) PROPER ARRANGEMENT HAS BEEN MADE FOR FINANCING (mortgage commitments, grants, etc.	.).		
(c) CONTRACTS FOR ENGINEERING SERVICES HAVE BEEN EXECUTED.	•		
(d) DESIGN PLANS AND SPECIFICATIONS HAVE BEEN COMPLETED.			
☐ (e) CONSTRUCTION HAS COMMENCED.			,
☐ (f) CONSTRUCTION AND/OR EQUIPMENT ACQUISITION IS ON SCHEDULE.			
(g) CONSTRUCTION HAS BEEN COMPLETED.			
☐ (h) START-UP HAS COMMENCED.			
(i) THE PERMITTEE HAS REQUESTED AN EXTENSION OF TIME.			
SECTION K - Self-Monitoring Program			
Part 1 - Flow measurement (Further explanation attached I flow calibration	-		
PERMITTEE FLOW MEASUREMENT MEETS THE REQUIREMENTS AND INTENT OF THE PERMIT.  DETAILS:	X YES	□ NO	□ N/A
(a) PRIMARY MEASURING DEVICE PROPERLY INSTALLED.	X YES	□ NO	□ N/A
TYPE OF DEVICE: WEIR PARSHALL FLUME MAGMETER DVENTURIMETER	OTHER (S	pecify	
(b) CALIBRATION FREQUENCY ADEQUATE. (Date of last calibration 944-00 11/21/80	X YES	Ои	□ N/A
(c) PRIMARY FLOW MEASURING DEVICE PROPERLY OPERATED AND MAINTAINED.	X YES	□ NO	□ N/A
(d)SECONDARY INSTRUMENTS (totalizers, recorders, etc.) PROPERLY OPERATED AND MAINTAINED.	YES	<u>No</u>	□ N/A
(e) FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGES OF FLOW RATES.	X YES	<u> </u>	□ N/A
Part 2 – Sampling (Further explanation attached <u>yes</u> )			
PERMITTEE SAMPLING MEETS THE REQUIREMENTS AND INTENT OF THE PERMIT.	☐ YES	₩ NO	□n/a
DETAILS:			
(a) LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES.	₩ YES	□ NO	□ N/A
(b) PARAMETERS AND SAMPLING FREQUENCY AGREE WITH PERMIT.	X YES	□ NO	□ N/A
(c) PERMITTEE IS USING METHOD OF SAMPLE COLLECTION REQUIRED BY PERMIT.	₩ YES	□ NO	□ N/A
IF NO, GRAB MANUAL COMPOSITE DAUTOMATIC COMPOSITE FREQUENCY			
(d) SAMPLE COLLECTION PROCEDURES ARE ADEQUATE.	₩ YES		□ N/A
(i) SAMPLES REFRIGERATED DURING COMPOSITING	X YES	<u> </u>	N/A
(ii) PROPER PRESERVATION TECHNIQUES USED	☐ YES	<u> </u>	□ N/A
(iii) FLOW PROPORTIONED SAMPLES OBTAINED WHERE REQUIRED BY PERMIT	☐ YES	NO	₩ N/A
(iv) SAMPLE HOLDING TIMES PRIOR TO ANALYSES IN CONFORMANCE WITH 40 CFR 136.3 (e) MONITORING AND ANALYSES BEING PERFORMED MORE FREQUENTLY THAN REQUIRED BY	X YES	NO	□ N/A
PERMIT. 5 times a week for pH & Fluoride	X YES	□ NO	□ N/A
(f) IF (e) IS YES, RESULTS ARE REPORTED IN PERMITTEE'S SELF-MONITORING REPORT.	X YES	□ NO	□ N/A
Part 3 — Laboratory (Further explanation attached Yes)			
PERMITTEE LABORATORY PROCEDURES MEET THE REQUIREMENTS AND INTENT OF THE PERMIT.	A YES	□ NO	□ N/A
DETAILS:	- TES	_ NO	U 14/A
(a) EPA APPROVED ANALYTICAL TESTING PROCEDURES USED. (40 CFR 136.3)	X YES	□ NO	□ N/A
(b) IF ALTERNATE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED.	<u></u>	ОиО	₩ N/A
(c) PARAMETERS OTHER THAN THOSE REQUIRED BY THE PERMIT ARE ANALYZED.	X YES	□ NO	
(d) SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT.	X YES	□ NO	□ N/A
(e) QUALITY CONTROL PROCEDURES USED.	₩ YES	□ NO	□ N/A
(f) DUPLICATE SAMPLES ARE ANALYZED. 400 % OF TIME. FOR BOD, 100% for TSS	X YES	□ NO	□ N/A
(g) SPIKED SAMPLES ARE USED. 100 % OF TIME. FOR Fluoride, NH3-N, PH	X YES	□ NO	□ N/A
(h) COMMERCIAL LABORATORY USED.	☐ YES	⊠ NO	. □N/A
(i) COMMERCIAL LABORATORY STATE CERTIFIED.	√ <del>⊠ ∨es-</del>	► □ NO	N/A
· <b>v</b>			. ]
LAB NAME	<del></del>		·
LAB ADDRESS			

						PERMIT NO	
SECTION L - Effic	uent/Receiving Wa	ter Observations /	Further explanation	attached	_)		
OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	VISIBLE FLOAT SOL	COLOR	OTHER
001	None	None	Low	None	None	Clear	
unpermit							
discharge	None	None	Medium	None	small amoun	ts Cloudy	
			10.	r / silva			
SECTION M - Sam	nling Inspection Pr		d N: Complete as ap	propriate for san	pling inspections)	N.	
	PLES OBTAINED					×	
☑ COMPOSITE	E OBTAINÈÓ PORTIONED SAM	101 E		The first of the	11/21/20	<b>&gt;</b>	
	C SAMPLER USE			*		× × ×	-
	LIT WITH PERMI					×	
	CUSTODY EMPLO		LING DEVICE				•
					ESERVATION		
	ERATED DURING		S: MYES ATURE OF DISCHA	□no RGE <b>Yes</b>			
SECTION N - Ana	lytical Results (At	tach report if nec	essary)				
						•	
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	•						
					美术人	Newson and the second s	~
					ę		

# Flow Calculation Sheet

Field Data:	Date	Time	hrs.
	Head 67:	Inches or .	0731
	Type & Size of Flow Mor	nitoring Device	7" scet. veir
	Name & Model of Flow Mo	onitoring Device	LIF/Lecity1
	Recorded Flow at date 8	time listed above	20% = 17.5 GH'
			.0252 MGI
Reference fo	r Flow Calculations Sto	event Water Ecsour	ded Doda Dook, Talle 7, 9. 32
Formula:	OFU = 0.3?(120) E	3/2 MCD = CTU )	.646317
Calculations	: $C(S) = 3.03 (.505 - 0.00)$ CFS = 3.03 (.500 - 0.00)		<i>1</i> 2.
	GIC = 3.32 (.50 4)	.0107	
	Ch5 = .7.373		
	Mud ≈ .0373 x .6463	17 = .0240996 <del>≃</del> .03	7 / 1 
% error = <u>re</u>	corded value - calculate calculated value	ed value (100)	
% error =	.02520241 × 100	2 = 4.56%	
% error =	.0241		

R6-69 (11-77)

#### DMR Calculation Check

Reporting Period:	From	03	1C	1	To EC	<b>1</b> C	31
,		year	month	day	year	month	day

Parameter Checked: Fluoride

## $\underline{\text{Quantity}}$

	Min.	Avg		Max	
Reported Value:		23/7 15	s/dav	40.8	Ths/day
Calculated Value:		2357 16	s/dej	49.5	lbs/oly
Permit Value:		25 <b>1</b> b	s/day	50	Hay'dry

If calculated value does not equal reported value, explain:

#### Administrative Order Compliance

Date AO issue	ed : _			
Date AO Due	: _		<del></del>	
Date AO Recei	ved : _			<del></del>
Date AO Close	·d : _			<del></del>
Administrativ	e Order comp	lied with? Yes	No	······································

### Mercury Disposal

Describe method used for disposal of mercury ( $\mathbf{H}_g)$  used in laboratory, if applicable.

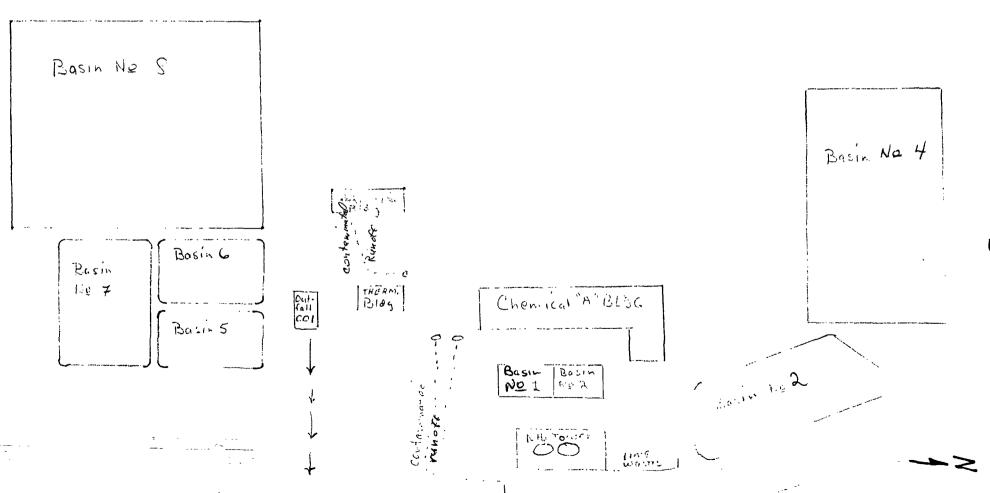
See APREL Committance Incremition Retail 8-15-0 for dispect I of manching used in Talonot my

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)ate_ <u>3</u>	<u>-16-81</u>		
ermit	No. OK	0001643	

# NPDES Compliance Inspection Report Further Explanations

Page_2of_4_
Section H Part g,i
Detail
The unpermitted discharge originates from storm water runoff flowing through
an area that was contaminated from previous spills. The contaminated
runoff is the discharge into the Arkansas River. The discharge point is
located S. E. from Chem A Building.
Page3_of_4_
Section <u>k</u> Part <u>2</u>
Detail <u>d-ii</u>
Samples are not refrigerated during the period after samples are taken
and before the analyses is started. The period duration is 1-3 hours.
Page 3 of 4
Section K Part 3
Detail <u>a -</u>
The fluoride analytical procedures (e.g. distillation) are performed in
an open area instead of being performed under a hood.
,

1



Arkansas River

Preliminary results from Fansteel's monitoring wells indicate possible groundwater contamination from their lagoons and dike area around the ammonia tanks for fluorides and NH<sub>3</sub>-N. Attached to this report is data we collected that could possibly account for the contamination of groundwater on the east side of the facility.

77461 DHRH NUMBER 4837 8444 3 ikti i 03/19/61 TIME 11:15 03/20/81 7.471 03/27/81 747 1121 FANSTEEL UK JJö

OKTAHOT V STATE DEPARTMENT CARREST STATE WATER QUALITY LABORATORY MATER ANALYSIS REFORM

; ; ;

WATER GUAL DIV UKLA WATER RESUMRCES BOARD 12TH FLOOR OSDH BLDG OKLAHOMA CITY UK 73152

UKLAHOMA WATER RESOURCES BOARD

MMDNIA AS N	56,900 MG/L	ELUDRIDE TUTAL	48.00	46/L
JELDAHL NITRUGEN N	60.820 MG/L	NITRITE-NITRATE	92.1	MG/L
DIAL ALKALINITY	167 MG/L	TOTAL HARDNESS	3612	
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JAN OKLA WATER RESOURCES BOARD · Muskogee

NN SW : 50 16 15N : 19E I ..

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OKLAHOMA STATE DEPARTMENT (1) FOLCTO STATE WATER QUALITY LABOR -WATER ANALYSIS REFORT

ccr.

WATER QUAL DIV
UKLA WATER RESOURCES BOARD
12TH FLOOR OSDH BLOG
UKLAHUMA CITY UK 73152

J.J.BLACK

FUDRIDE IN SECTION 110000.0 MG/KG TOTAL ALKALINITY 13000 MG/KG TOTAL HARDNESS 1000 MG/KG TOTAL PADS IN SED 32.0 MG/KG CHROMIUM IN SEDIMENT 40.00 MG/KG CADMIUM IN SEDIMENT 2.00 MG/KG CALCIUM IN SEDIMENT 3200.00 MG/KG COPPER IN SEDIMENT 17.00 MG/KG LALCIUM IN SEDIMENT 3200.00 MG/KG POTASSIUM IN SED 160.00 MG/KG LEAD IN SED 40.00 MG/KG POTASSIUM IN SED 160.00 MG/KG ZINC IN SED 400.00 MG/KG POTASSIUM IN SED 160.00 MG/KG ZINC IN SED 400.00 MG/KG POTASSIUM IN SED 160.00 MG/KG ZINC IN SED 400.00 MG		DKLAHDMA WATER RESOURCES	BUARD
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LESS THAN DETECTION LIMIT  **********************************	OKLA WATER RESOURCES BOARD	REMARM A CODE (FXPLAINATIONS	
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	CONTAMINATED RUNOFF THAT IS	DIS-	i,
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77007 OWRH NUMBER 4821
... 02/26/81 TIME 10:00
02/28/81
03/10/61
FANSTEEL
J.J. BLACK

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WATER QUAL DIV
DKLA WATER RESOURCES BOARD
12TH FLOOR DSDH BLDG
DKLAHDMA CITY UK 73152

OKLAHOMA WATER RESOURCES BOAR

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TOT DISSOLVED SOLIDS 18910 MG/L TOTAL ALKALINITY I MG/L TOTAL HARDNESS I MG/L TOTAL ORGANIC CARBON 54.2 MG/L TOTAL PHUSPHOROUS P .330 MG/L CADMIUM-TOTAL 5 UG/L CALCIUM-TOTAL 4 1.0 MG/L CHROMIUM-TOTAL 31 UG/L CUPPER-TOTAL 114 UG/L LEAD-TOTAL 4 20 UG/L MANGANESE-TOTAL 20.0 UG/L POTASSTUM-TOTAL 850.00 MG/L SUDIUM-TOTAL 7000.00 MG/L ZINC-TOTAL 4 UG/L		163.	5 MG/L		1		
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TOTAL PHUSPHOROUS P         .330 MG/L         CADMIUM-TOTAL         5 UG/L           CALCIUM-TOTAL         < 1.0 MG/L	TOT DISSOLVED SOLIDS		O MG/L	TOTAL ALKALINITY	I		4G/L
CALCIUM-TOTAL          1.0 MG/L         CHROMIUM-TOTAL         31 UG/L           COPPER-TOTAL         114 UG/L         LEAD-TOTAL          20 UG/L           MANGANESE-TOTAL         20.0 UG/L         POTASSTUM-TOTAL         850.00 MG/L           SUDIUM-TOTAL         7000.00 MG/L         ZINC-TOTAL          4 UG/L	TOTAL HARDNESS	I	MG/L	TOTAL ORGANIC CARBON	•	54.2	4G/L
CUPPER-TOTAL 114 UG/L LEAD-TOTAL < 20 UG/L MANGANESE-TOTAL 20.0 UG/L POTASSTUM-TOTAL 850.00 MG/L SUDIUM-TOTAL 7000.00 MG/L ZINC-TOTAL < 4 UG/L	TOTAL PHUSPHOROUS P	.33	O MG/L	CAUMIUM-TOTAL		5	UG/L
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SUDIUM-TOTAL 7000.00 MG/L ZINC-TOTAL < 4 JG/L	CUPPER-TOTAL	1 1	4 UG/L	LEAD-TOTAL	<	20	UG/L
	MANGANESE-TOTAL	20.	0 UG/L	POTASSTUM-TOTAL	•	850.00	MG/L
OTL AND CREASE . A G MC/I	SUDIUM-TOTAL	7000.0	0 MG/L	ZINC-TOTAL	<	4	UG/L
OIL WAD OVENSE	DIL AND GREASE		9 MG/L			•	

OURCES BOARD REMARKS COOF EXPLAINATIONS

OKLA WATER RESOURCES HOARD

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REMARM 4 COOR EXPLAINATIONS

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LESS THAN DETECTION LIMIT

MW SW = 16 - KN = 19E I

CONTAMINATED RUNOFF THAT IS DIS-

CHARGE INT ARKANSAS RIVER.FANSTE

REQUISITIONER CORY 2.5

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## 77006 OWRB NUMBER 4820 DATE 1. ## 02/26/81 TIME 09:00 PATE 1. ## 02/28/81 CAT. T. ## 03/11/81 FANSTEEL

com ---- J.J. BLACK

OKLAHOMA STATE DEPARTMENT COMMITTED STATE WATER ANALYSIS REPIRED

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WATER QUAL DIV
OKLA WATER RESOURCES BOARD
12TH FLOOR OSDH BLOG
OKLAHOMA CITY OK 73152

DELAHOMA MATER RESOURCES BOARD

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FLUORIDE IN SEDIMENT	27140	MC/KC		2.6 1500	MCZI
SULFATE IN SEDIMENT	E/15 00	MC /KC	TOTAL ALKALINITY -	1 00	MCAKC
CHROMIUM IN SEDIMENT	7545.00	MC/KC .—	CADMIUM IN SEDIMENT	1.00	MC/KC
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MEDCHEY IN SEDIMENT		MGAKC	MANGANESE IN SED POTASSIUM IN SED	150.00	
MERCURY IN SED <		MC \KL	POTROSTON IN SED	130.•00	70/16
SDDIUM IN SED		<u> </u>			
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ANALYSTY LEAD = 118 MG/K		1 = < .2!	$\wedge$		
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549 1 7 7 76093 DWRB NUMBER 4771 DWT:1111 15 01/21/81 TIME 11:00

 OKLAHOMA STATE DEPARTMENT OF HEILTH STATE WATER UNAL THILASCAPILITY WATER ANALYSIS REFORM

WATER QUAL DIV OKLA WATER RESOURCES BOARD 12TH FLOOR OSDH BLDG OKLAHOMA CITY UK 73152

DKLAHOMA WATER RESOURCES BOARD

			CHLORIDE IN SEDIMENT <		(C
FLUORIDE IN SEDIMENT					
			SULFATE IN SEDIMENT	4254 MG/H	
TOTAL ALKALINITY	2811			2508 MG/K	
CHROMIUM IN SEDIMENT	475.00			1.00 MG/K	_
CHROMIUM HEX IN SED			COPPER IN SEDIMENT		
LEAD IN SED			MERCURY IN SED <		-
		MG/KG	ZINC IN SED	73.00 MG/K	
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TOLER OKLA WATER RESOURCES BOARD

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Cochy Mc 21 RESOURCES BOARD

grance whiters 76094 OWRE NUMBER EATE DE \_\_\_\_\_\_\_ TO FET 01/21/81 TIME 11:20 EATE PETTI SO 01/23/81

D4TE 17 FLETET 02/27/81 POND 8 COLLECTED BY JJ BLACK

> WATER QUAL DIV DKLA WATER RESDURCES BOARD

12TH FLOOR OSDH BLDG

OKLAHOMA CITY OK 73152 ONLYHOMA STYLE DEFARTION TO SEE STATE MATERIALIZATION AND WATER AND SET HOLD 1981

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OKLAHOMA WATER RESOURCES BOAFD

#### UKLAHOMA WATER RESOURCES BOARD

AMMONTA AC N			ABAGGGGG CAN MANAGAN AND AND AND AND AND AND AND AND AND A	121700 0	, MGZL
CHLORIDE IN SEDIMENT	< 1000	MC\KC	CALCIUM HARDNESS FLUORIDE IN SEDIMENT	1150 00	MG/KG
NITRATE/NITRITE-SED			Dis		
SULFATE IN SEDIMENT			The second control of the control of	E 11340	
TOTAL HARDNESS	183400		CHROMIUM IN SEDIMENT		MG/KG
CADMIUM IN SEDIMENT			CHROMIUM HEX IN SED <		
	16.00		LEAD IN SED <		
MERCURY IN SED	<u>.</u> 5	MG/KG	POTASSIUM IN SED	28.00	
ZINC-TOTAL	29	UG/L			
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HOSHAM OKLA WATER RESOURCES BOARD

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REMARW . CODE EXPLAINATIONS < LESS THAN DETECTION LIMIT

SAMPLERS SEDIMENT OF LAGOON

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COMMENTS

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> Rochen ASL-REQUISITIONER CORY

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WATER QUAL DIV OKLA WATER RESOURCES BOARD 12TH FLOOR OSDH BLDG OKLAHOMA CITY OK 73152

COLLEGE LA JJ BLACK

OKLAHOMA WATER RESOURCES BOARD

OKLAHOMA WATER RESOURCES BOARE

AMMONIA AS N			CALCIUM HARDNESS	48780.0	MG/L
CHLORIDE IN SEDIMENT <	1000	MG/KG	FLUORIDE IN SEDIMENT	17000.00	
NITRATE/NITRITE-SED <	50.0	MG/KG	PH		
SULFATE IN SEDIMENT	5430	MG/KG	TOTAL ALKALINITY	2559	MG/L
TOTAL HARDNESS	54200	MG/KG	CHROMIUM IN SEDIMENT	505.00	MG/KG
CADMIUM IN SEDIMENT <	1.00	MG/KG_	CHROMIUM HEX IN SED <	2.5	<u>.4G/KG</u>
COPPER IN SEDIMENT	34.00	MG/KG	LEAD IN SED	55.00	46/KG
MERCURY IN SED <	5	MG/KG	POTASSIUM IN SED	260.00	MG/KG
ZINC IN SED	57.00	MG/KG			
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SAMPLERS SEDIMENT

ANALYSTS COMMENTS

Pal. N. Il.

37- 1, 4- 1 77005 OWRB NUMBER 4819

02/26/81 TIME 09:30
02/28/81
03/10/81
FANSTEEL
03.J. BLACK

STATE WATER COLOR 148 TO THE WATER AND THE TOTAL

WATER GUAL DIV OKLA WATER RESDURCES BOARD 12TH FLOOR OSDH BLDG OKLAHOMA CITY UK 73152

# OKI AHOMA WATER RESOURCES BOAR.

ALCIUM HARDNESS		MG/L	FLUORI TOTAL	DE TOT	AL		15.40 MG/
ALCIUM-TOTAL	368.0	MG/L	COPPER	TOTAL			23 UG/
	210.00	MG/L	ZINC-T	OTAL			6 UG
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SANGE WATER EAST OF LIME PILE, EAST OF CHEMA BLOG.FANSTEEL.

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77003 OWRB NUMBER 4817

77003 UMRB NUMBER 41 1 02/26/81 TIME 09:45 1 02/28/81 1 03/11/81 FANSTEEL

. J.J. BLACK

OKLAHOMA STATE DESAFTMENT STATE WATER OUAL TY LABOUR. WATER ANALYSIS REPURE

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MATER QUAL DIV OKLA MATER RESOURCES BOARD 12TH FLOOR OSDH BLOG DKLAHOMA CITY UK 73152

OKLAHOMA WATER RESOURCES BOAR!

TOTAL ORGANIC CARBON 11.0 MG/L CALCIUM-TO POTASSIUM-TOTAL 1000.00 MG/L SODIUM-TOT		
SUSPENDED SOLIDS 14 MG/L TOTAL ALKALINITY 14030 MG/L TOTAL HARD TOTAL ORGANIC CARBON 11.0 MG/L POTASSIUM-TOTAL 1000.00 MG/L SODIUM-TOT ZINC-TOTAL 79 UG/L		SU
TOTAL ALKALINITY 14030 MG/L TOTAL HARD TOTAL ORGANIC CARBON 11.0 MG/L CALCIUM-TO POTASSIUM-TOTAL 1000.00 MG/L SODIUM-TOT ZINC-TOTAL 79 UG/L		MG/
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NW : 5N . 50 /6 - 15 N = 19 E E		

SAN HAY MATER SURROUNDING NH3 TOWER.

FAN STEEL

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REQUISITE FAMILY COPY

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STATE WATER QUALITY LABORATORS
WATER ANALYSIS REPORT

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MATER JUAL DIV SKLA MATER RESSURCES BUARD 121m FLUON USDM SLUG UKLAHURA CIIT UK 73152

UKLAHOMA WATER RESUURCES BUARD

CALCIUM MARDIESS	12200.0 671	FLUORIDE IN SEUT EN	130000.0 46/46
TUTAL ALKALINITY	657 NG/L	TOTAL HARDINESS	19510 MG/L
TOTAL PRUS TY SEL	250.0 76/46	CALCIUM IN SEDIMENT	6680.00 46/AG
PUTASSIUM IT SEU	- 88.00 MG/KG	ZINC IN SEL	29.00 MG/AG
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SEE REVERSE SIDE FOR WATER QUALITY REPORT SIGN F CANNE

ST - . . OKLA WATER RESOURCES BUARD

... Muskogee

SEDIMENTS SURROUNDING NH3 TOWER.

Provided Company

REQUISITIONER COPY

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5 - - 77454 - DARH NUMBER 4826 parkm - 1 03/19/81 TIME 11:00 03/20/51 1.415 FANSTEEL UK

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WATER WUAL DIV UNLA WATER RESOURCES BUARD 1215 FLOUR OSOH BLUG ONE AMOUNT CITY DK 73152

OKLAHOMA STATE DEPARTMENT OF HEALTH

STATE WATER QUALITY LABORATORS

WATER ANALYSIS REPORT

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OKLAHOMA WATER **RESOURCES BOARD** 

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UNLA WATER RES	OURCES	BI) APD			J		
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17462 ONRO NUMBER 4838 03/20/61 03/27/61 FANSTEEL OR JJB

OKLAHOMA STATE CEPARTMENT O TOURS STATE WATER OUAL TY 1497 PAT WATER ANALYS SIFEFFE

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WATER BUAL DIV DKLA WATER RESUURCES BUARD 12TH FLOOR DSDH BLUG UKLAHDMA CITY UK 73152

UKLAHOMA WATER RESOURCES BUARD

AMMUNIA AS N 277.000 MG/L FLUORIDE TUTAL 64.00 MG/L KJELDAHL NITROGEN N 3030.000 NG/L NITRITF-NITRATE 12.3 MG/L SUSPENDED SULIDS 1H MG/L to again tags of the time and account of the second control of the SEC PEVERSE SIDE FOR WATER COAUTY REFURY SHOWS CHALF

Muskogee

... OKLA MATER RESUURCES BOARD MUSKOgee

-- LESAL -----NW - 5W' = 527 16 - 13 N = 19 E I "

- OUTFALL 001

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Lodge Sho

77009 DWRB NUMBER 4769 02/26/81 TIME 11:30 18/85/50 03/10/81 FANSTEEL J.J.BLACK

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WATER QUAL DIV OKLA WATER RESOURCES BOARD 12TH FLOOR OSDH BLOG OKLAHOMA CITY UK 73152

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UKLAHOMA WATER RESOURCES BOAR!

BUD 5 DAY		25.0	MG/L	CHEMICAL OXY DAD HE	102.7	4G/L
FLUORIDE TOTAL	8	600.00	MG/L	NITRATE AS N	12.230	MG/L
NITRITE AS N	<u> </u>	\$500	MG/L	NITRITE-NITRATE	12.2	MG/L
PH	(FRUE)	8.2	SU	SPECIFIC CUNDUCTANCE	11100	UMHOS/
SULFATE	•	3889	MG/L	SUSPENDED SOLIDS	23	4G/L
TOTAL ALKALINITY		170	MG/L	TOTAL HARDNESS	155	MG/L
TOTAL ORGANIC CARBON		11.0	MG/L	TOTAL PHOSPHURDUS P	.100	MG/L
CADMIUM-TOTAL		ь	UG/L	CALCIUM-TOTAL	46.0	4G/L
CHROMIUM-TOTAL		11	UG/L	COPPER-TOTAL	55	UG/L
POTASSIUM-TOTAL "		720.00	MG/L	ZINC-TOTAL	14	UG/L

THE MALE OKLA WATER RESOURCES BOARD

OURCES BOARD

REGION DETECTION LIMIT

12 . Mustagee . NW . SW . . . 16 TIBN = 19E I.

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MAR 1 6 1981

500 00 COMPOSITE 24HRS.OUTFALL 001. Oklahoma Water Resources Board

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Lody M. Sham